



NK-100 DIGITAL TV SIGNAL ANALYZER

PRESENTATION

PTek Lab's NK-100 is a handheld digital TV signal analyzer which can measure and analyze digital TV signal aired in a specific area.

It supports following digital TV standards: ISDB-Tmm, ISDB-T, ISDB-TB, ISDB-Tsb, DTMB, DVB-T and DVB-T2 (including DVB-T2 Lite) and AREA 1SEG.

NK-100 is helpful for signal coverage measurements, network optimizing work and field trial testing of TV broadcasting hardware.

FEATURES

- Multiple digital TV systems can be supported with only 1 set of NK-100 (demodulator modules optional).
- Compact, lightweight, portable TV signal analyzer that can be used indoors and outdoors.
- Smart & user friendly operation with any Android tablet PC. No steep learning curve!
- Measurement data can be saved on external storage (SD card).
- GPS plotted measurements: Results can be displayed on a map.
- Two generic lithium-ion batteries can be fitted simultaneously for extended operating time.
- Supports Japanese Area 1 segment broadcasting signals.

PRODUCT IMAGE

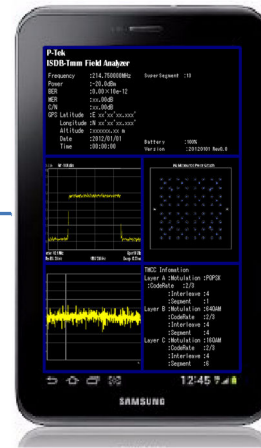
Receiving & measurement unit

NK-100



Operation & display

(On non-supplied Android tablet)



USB CABLE

Android application screenshots





NK-100 DIGITAL TV SIGNAL ANALYZER

SPECIFICATIONS

- Digital TV system standards:
 - ISDB-T ARIB STD-B31 ※1
 - ISDB-Tmm ARIB STD-B46 ※1
 - ISDB-Tsb ARIB STD-B29 ※1
 - DTMB GB20600-2006 ※1
 - DVB-T ETSI EN300-744 ※1
 - DVB-T2 ETSI EN302-755 V1.3.1 ※1
 - AREA 1SEG ※1

Optional demodulator units are needed to access advanced measurement functions.

- Reception signal input:
 - Connector type: N (female) / 50Ω
 - Reception frequency range: 80~950MHz
 - Maximum input level +20dBm (Pre-AMP OFF)

MEASUREMENT FUNCTION

- **NK-100 without optional demodulators**
 - Simple spectrum monitor
- **With optional demodulators**
 - Channel power
 - SNR (Signal to noise ratio)
 - BER (bit error rate)
 - Modulation analysis: Modulation system/FEC rate/guard interval/ time interleave
 - Delay profile
 - MER (modulation error ratio)
 - Constellation
 - Rooting Test
 - GPS location data can be stored in pair with measurement data

GENERAL SPECIFICATIONS

- Size: 75.4(H)×300(W)×200(D)mm (proj. excl.)
- Weight: Approx. 2.5kg
- Operation/Display: Supplied app for non-supplied Android tablet PC (Android 4.2 or newer)
- Power requirements: 7.2V DC
- Operating temperature: 5°C~40°C、20%RH~85%RH (non-dewing)
- External storage: SD card
- Supplied accessories: Android application software, AC adapter (charger), USB cable, 2GB SD card, printed manual.

OPTIONS

※1 To access advanced measurement functions, TV standard dependent optional demodulator modules are needed. Multiple module installation possible except for NK-10.

- NK-10 For ISDB-Tmm & AREA 1SEG (BW 20MHz, 33 segments)
- NK-11 For ISDB-T
- NK-12 For DTMB
- NK-13 For ISDB-Tsb
- NK-14 For DVB-T/T2
- NK-15 For ISDB-Tmm & AREA 1SEG (BW 6MHz, 13 segments)

BATTERIES

For portable operation, NK-100 can be powered with either one or two lithium-ion batteries of 6600mAh (SONY NP-F970). Although the AC charger is supplied as standard, the batteries can unfortunately not be supplied by us, due to export restrictions. Kindly purchase this common battery model locally.

Data subject to change without notice. Please contact us for the most recent specifications!



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